

Recent Experience of US Safety Testing of Foreign Ammunition

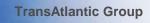
Roy Kelly
TransAtlantic Group

34th DDESB Seminar, Portland, Oregon, July 13 – 15, 2010

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Report Documentation Page

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Foreign Items Tested

- 1. 40mm Practice Cartridge, MK 281 MOD 0 and MOD 1
 - Tested at Aberdeen (APG), NSWC Crane (MOD 0) and Rheinmetall Germany (MOD 1)
- 2. 40mm Practice Cartridge, M1110
 - Tested at Rheinmetall (Germany) and NTS Camden, AR
- 3. Diversionary Stun Grenade, MK 13 MOD 0
 - Tested at NSWC Dahlgren, Rheinmetall and NTS Camden
- 4. 66mm IR Screening Smoke, MK 1 MOD 0
 - Tested at NSWC Dahlgren and Rheinmetall (Germany)

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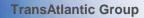
40mm Practice Cartridge MK 281 MOD 0 and MOD 1







- ☐ Testing started in 1999, completed in 2002 (MOD 0)
- □FCT and USMC Funding



40mm Practice Cartridge M1110

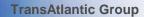








- □ Testing started in 2006, completed in 2009
- ☐ FCT and USMC Funding



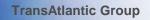
Diversionary Stun Grenade MK 13 MOD 0





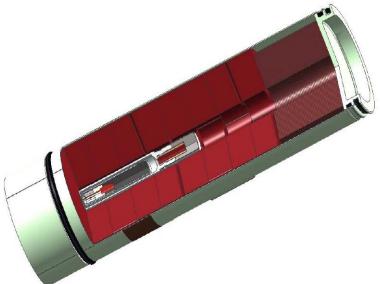


- □ Testing started in 2006, completed in 2008
- USN and USSOCOM Funding



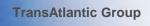
66mm IR Screening Smoke MK 1 MOD 0





- □ Testing started in 2006, completed in 2009
- USMC Funding





US Government Agencies

■ NSWC Dahlgren and Crane □ Technical and Contractual **Support** ■ NOSSA Indian Head □ Approval of Foreign Energetic **Materials and IHCs** ☐ USMC Quantico □ DDESB – Safety Approvals ■ WSESRB – Safety Approvals □ DCMA Southern Europe ☐ Quality and FAT Support ☐ Transportation to USA from

Foreign Contractor

US Contractor Test Facilities



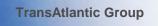
National Technical Systems (NTS), Camden AR



MIL-STD-2105 / STANAG

- Fast Cook-Off
- Slow Cook-Off







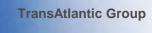
Foreign Contractor Test Facilities

Testing Center Unterluess (EZU), Germany





Certified to ISO 9001:2000 and AQAP 110



Some of the Changes since 2000

- Defense Acquisition System Updates
 - □ DODI 5000-02
- Insensitive Munitions Updates
- More severe Testing required, for example Helicopter Vibration Testing
- Increased Attention to Design for Demilitarization
- Increased Attention to Life Cycle Environmental Compliance



Difficulties for Foreign Exporters of Ammunition

- Different Interpretation of Test Procedures between US and Europe
 - NATO STANAGS and MIL-STDs
- Compliance with US Requirements for Energetic Materials and Compositions
 - NAVSEA SWO Compliance
- FOB Origin and Destination Contracts
 - Commercial Shipments need BATF Approval



Overseas Testing of Foreign Ammunition

1. Can save a lot of Time and Money

2. Needs constant Oversight to ensure detailed Compliance with US Testing Requirements

3. Oversight Resources provided by US Technical / Program Managers and DCMA in Europe